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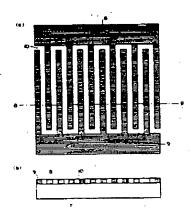
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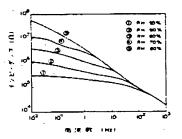
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TITLE

**ELECTRODE FOR MONITORING** 

ATMOSPHERIC CORROSION SPEED





ABSTRACT :

PURPOSE: To monitor corrosion even in the atmosphere in the same manner as that in soil, by a method wherein the lengths of the opposed shorelines of two metal bodies are extended so that the ratio of the lengths of the shorelines to the interval thereof becomes 1,000 times or more and two metal bodies are allowed to extremely approach each other to bring the electric resistance of a water film to the same degree as the polarizing resistances of the metal bodies or less.

CONSTITUTION: A metal foil is laminated to a ceramic substrate 7 and separated into two regions by etching to form electrodes 8, 9. This etching pattern is formed so that the line width of a groove 10 is made as fine as possible and the opposed shorelines of the regions of two electrodes 8, 9 are extended as long as possible. Then, the grove 10 is embedded by an insulator. When the AC impedance due to the corrosion reaction in the atmosphere is measured using the electrodes 8, 9 thus formed, the chart shown by a drawing is obtained and the measurement and analysis of the AC impedance in the atmosphere with humidity of 70% or more become sufficiently possible and the monitoring of atmospheric corrosion thereby becomes possible.

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